



Macrolux[®] **Rooflite[®]**

POLYCARBONATE SHEETS

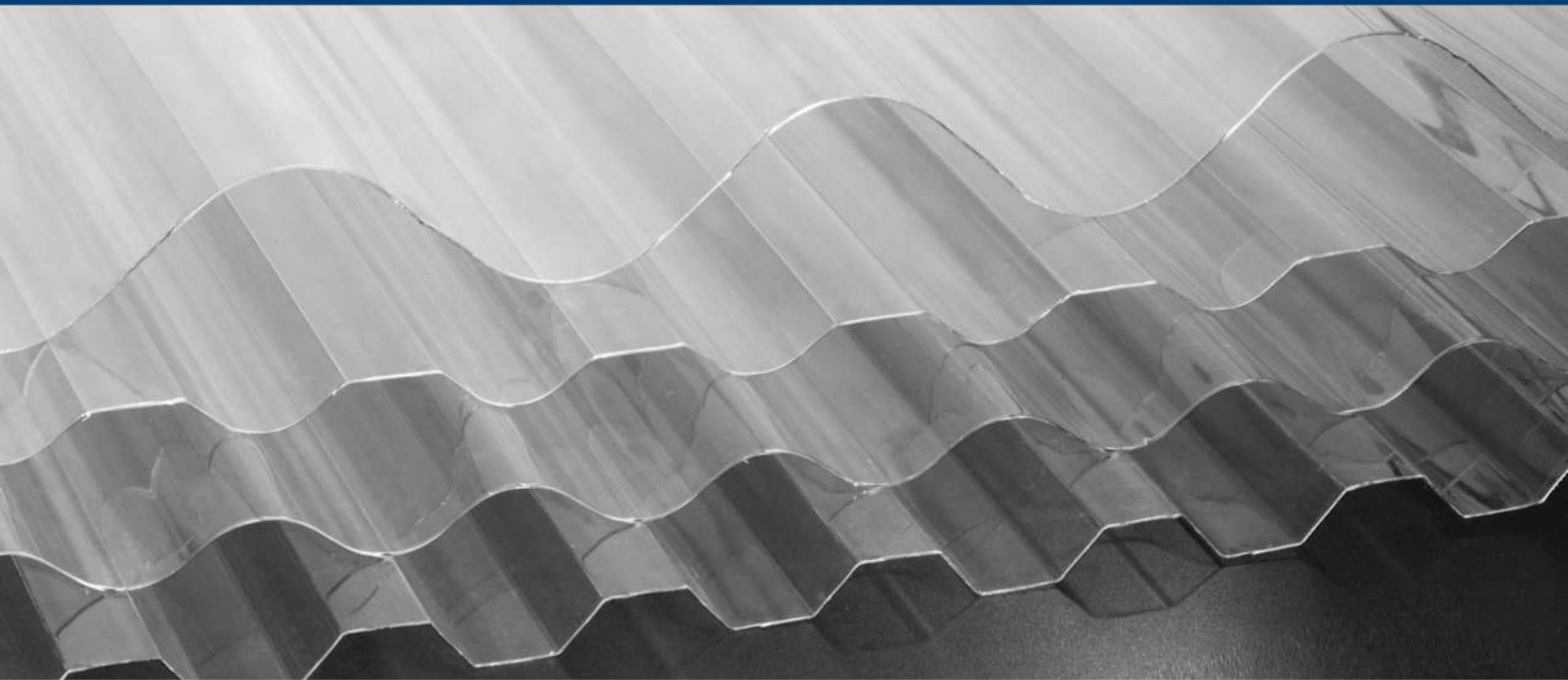
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Macrolux[®] **Rooflite[®]**

POLYCARBONATE
CORRUGATED SHEETS

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Macrolux® Rooflite®



Lightweight

Good impact resistance

Excellent light transmission

Good fire performance

Guaranteed and certified quality

UV protection

Wide range of shape options

Macrolux® Rooflite® sheets come in two options - trapezoidal or sinusoidal - and are designed to cater to various different types of applications in the building, agricultural and industrial field. Available in different shapes and thicknesses, they match perfectly with a wide range of sheet metal profiles from leading manufacturers and/or with sandwich panels. The corrugated sheets are particularly suitable for agricultural use for roofing greenhouses where light transmission is a crucial requirement.

Impact resistance

Polycarbonate's mechanical properties make this the technopolymer with the highest impact resistance, allowing it to provide optimum protection against accidental damage and weather-related damage. These qualities mean polycarbonate significantly outperforms other materials (glass, acrylic, PET, etc.) commonly used in applications where transparency is a key requirement. Impact resistance remains constant across a particularly wide temperature range.

UV protection

Applying UV Absorber protection stops polycarbonate from absorbing UV rays that would otherwise lead to its rapid degradation and be responsible for subsequent yellowing and for undermining the strength of the exposed surface. UV protection is applied using co-extrusion technology, whereby an even shielding layer can be produced to screen the polycarbonate from the UV component of the solar radiation. With this technology, the UV protection is made resistant to weathering and is not prone to damage by incorrect maintenance.

Warranty

Sheets with UV protection come with a 10-year warranty against yellowing, loss of light transmission and hail damage. Our sales department will be happy to provide you the exact warranty terms.

Thermal expansion

Thermal expansion is a characteristic property of materials that consists in their tendency to change in size as temperature increases. This expansion is quantified via a coefficient that, in the case of polycarbonate, equates to 0.065 mm/m °C. The fact that this coefficient value is much higher than the values associated with materials usually used for roofing and joinery (aluminium, steel, etc.) generates the need for solutions that compensate for this difference in thermal expansion, which thus needs to be factored in at the design stage and in all building applications.

Light transmission

Proper lighting design entails ensuring that the building interior receives the required amount of light. So it is clearly important to use sheets that let enough light through. The **Macrolux® Rooflite®** product range gives you plenty of choice at the design stage of your project, with an array of colour options to meet your every need.

Macrolux® Rooflite®



Other shapes available on request. Our sales department will be happy to answer any queries you may have.

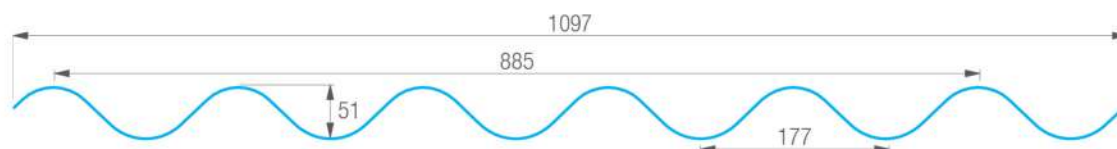
Shape	Thickness (mm)
Onda 76/18	From 0,5 to 1,1
Onda 177/51 compatible with Eternit	From 0,8 to 1,4
Onda 147/49 compatible with Eternit B6	1 / 1,2
Onda 83/20 compatible with Iscom (Sinus 20-83)	1,2
Omega 76.2/16	0,8 / 1
Omega 76.2/16 - 1870 and 2022	0,8
Omega 88/24 compatible with Tecno Imac (Ecolina)	1
Greca 76/18	From 0,7 to 1,1
Greca 76/18 - 1870	0,8
Greca 205.5/35.4	1 / 1,2
Greca 207/35 compatible with Kloeckner	1 / 1,2
Greca 333/38 compatible with Metecno A38	1 / 1,2
Greca 333/42 compatible with Remco	1
Greca 333/39 compatible with Haironville 39/333	1 / 1,2
Greca 250/40	From 0,8 to 1,2
Greca 112/28 compatible with Profilia LG28	1
Greca 111.8/29.1 compatible with Alubel 28	1 / 1,1
Greca 200/32 compatible with Hiansa MT32	0,85 / 0,9 / 1
Greca 200/42 compatible with Hiansa MT42	1 / 1,2
Greca 333/45 compatible with Nervesco 3.45.1000TS	1 / 1,2
Greca 193/32 compatible with Ondulit (Coverib 850)	1 / 1,2

Shape	Thickness (mm)
Greca 262.5/32 compatible with Teczone TZ32	0,8 / 1
Greca 151/38 compatible with Assanpanel 38/151	1 / 1,2
Greca 228.6/19.05 compatible with MB9	0,8
Greca 250/40 compatible with Cobacier 1004	0,9 / 1
Greca 209/30 compatible with Aceralia	1
Greca 275/30	0,8 / 1
Greca 500/41 compatible with Isolpack (Delta 3A)	0,9 / 1,2
Greca 250/41 compatible with Isolpack (Delta 5A)	1
Greca 250/41.9 compatible with Italpanelli (Penta)	1
Greca 250/40 compatible with Isolpack (RW1000)	0,9
Greca 250/40 compatible with ICON - A.H.M	1
Greca 144/24.5 compatible with Superpantera	0,8 / 1
Greca 78/21 compatible with Alubel 21	0,9
Greca 250/36 compatible with SAB KD36	1
Greca 75/20 compatible with Grekor (20/52)	1
Greca 112/29 compatible with Copernit (Profilo 29)	1
Greca 117.5/25 compatible with Isolpack (SL 940)	0,9
Greca 333.5/38 compatible with Scope 333.5x38	1,2
Greca 250/40 compatible with Alubel (Dach)	1
Greca 143/34 compatible with Tecno Imac (Greca 143)	1,1
Greca 183/40	1 / 1,2

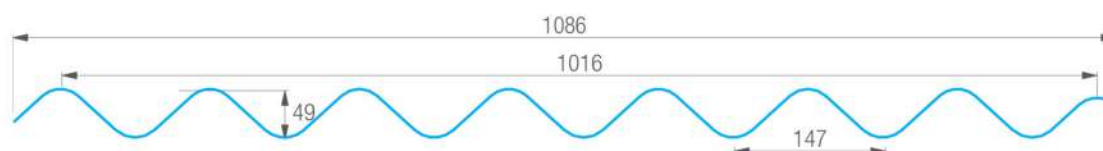
Onda 76/18



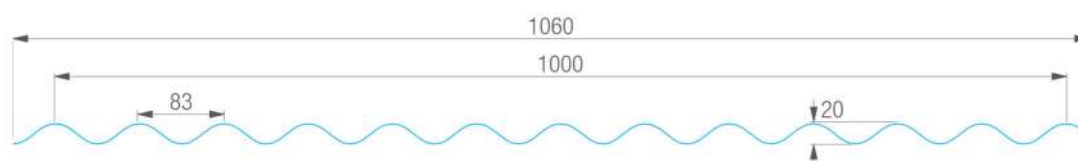
Onda 177/51 compatible with Eternit



Onda 147/49 compatible with Eternit B6



Onda 83/20 compatible with Iscom (Sinus 20-83)



Omega 76.2/16



Omega 76.2/16 - 1870 and 2022



Omega 88/24 compatible with Tecno Imac (Ecolina)



Greca 76/18



Greca 76/18 - 1870



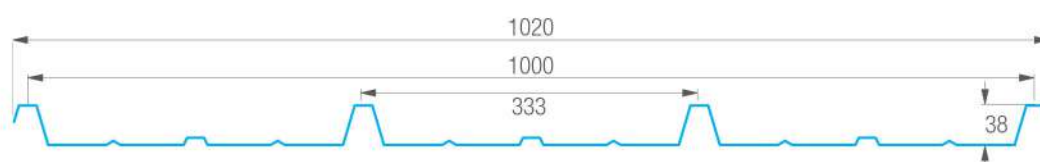
Greca 205.5/35.4



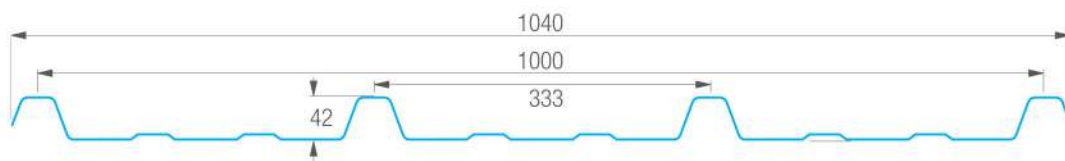
Greca 207/35 compatible with Kloeckner



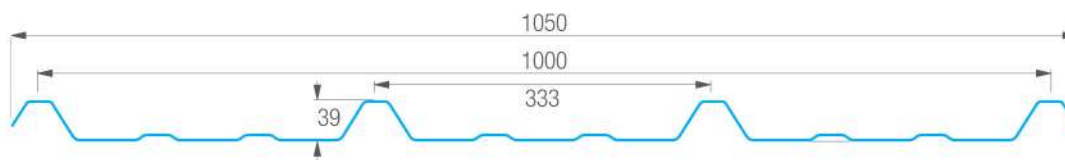
Greca 333/38 compatible with Metecno A38



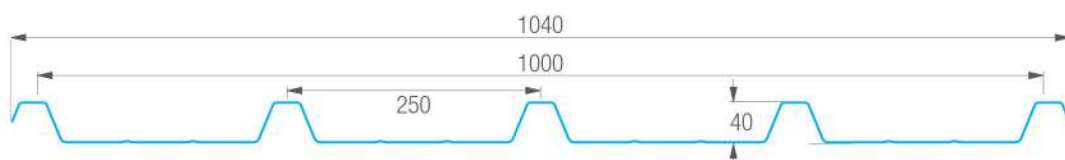
Greca 333 / 42 compatible with Remco



Greca 333 / 39 compatible with Haironville 39/333



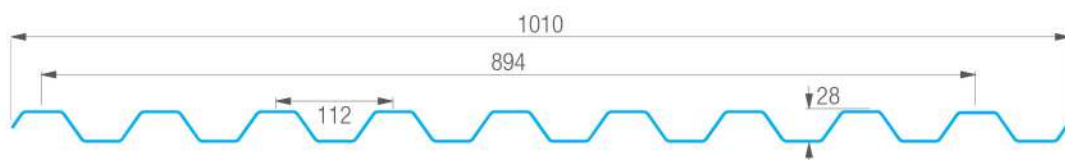
Greca 250 / 40



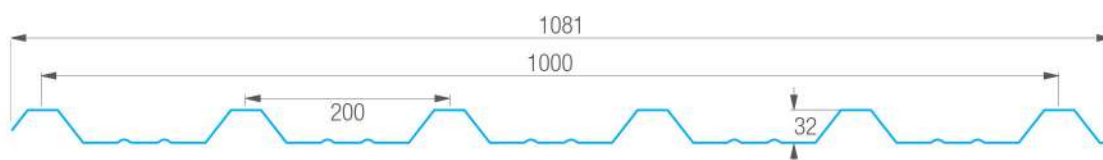
Greca 112 / 28 compatible with Profilia LG28



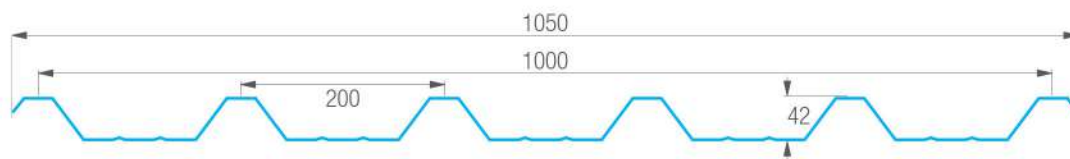
Greca 111.8 / 29.1 compatible with Alubel 28



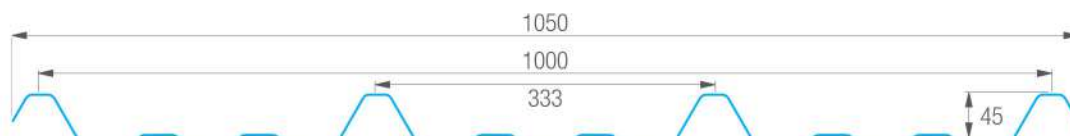
Greca 200 / 32 compatible with Hiansa MT32



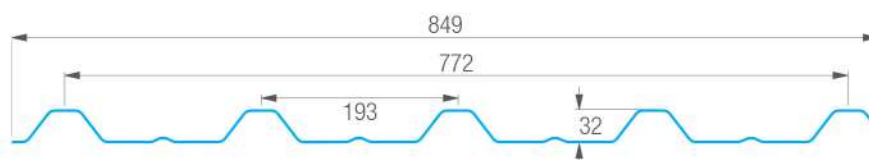
Greca 200/42 compatible with Hiansa MT42



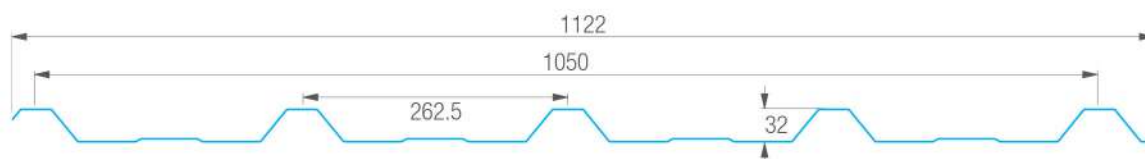
Greca 333/45 compatible with Nervesco 3.45.1000TS



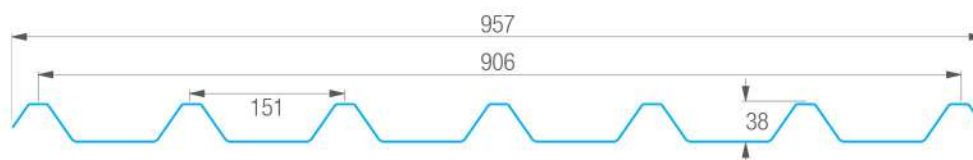
Greca 193/32 compatible with Ondulit (Coverib 850)



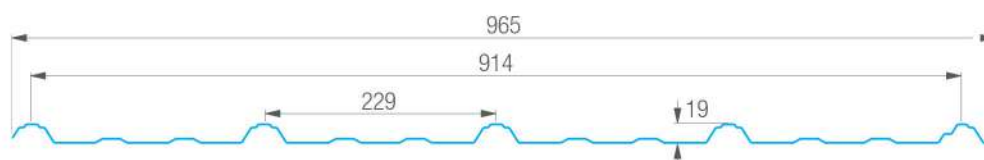
Greca 262.5/32 compatible with Teczone TZ32



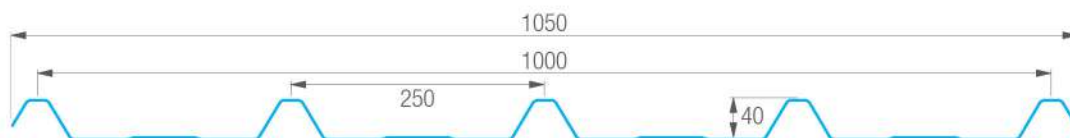
Greca 151/38 compatible with Assanpanel 38/151



Greca 228.6/19.05 compatible with MB9



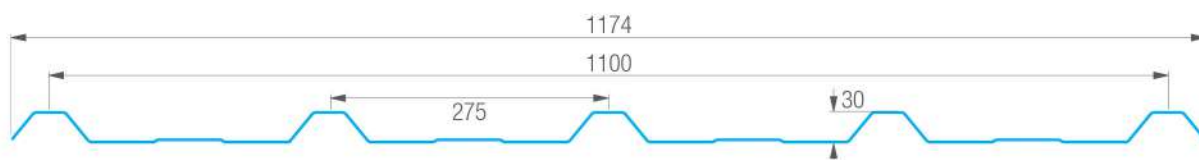
Greca 250 / 40 compatible with Cobacier 1004



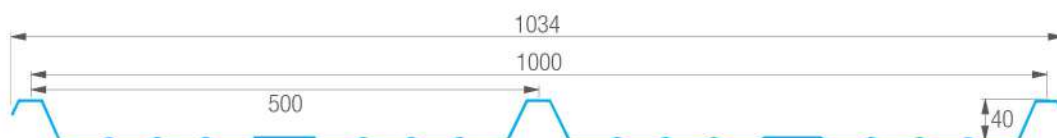
Greca 209 / 30 compatible with Aceralia



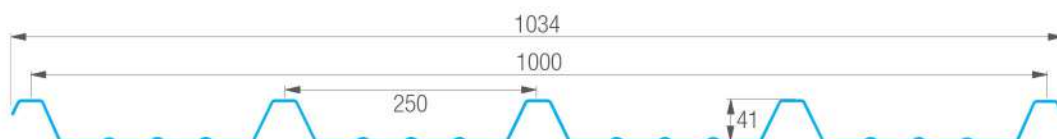
Greca 275 / 30



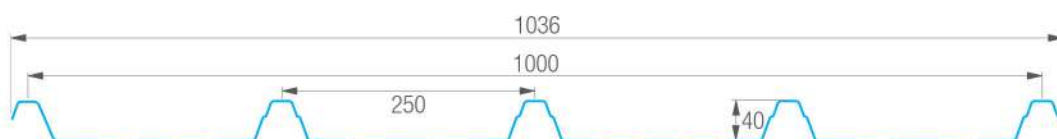
Greca 500 / 41 compatible with Isolpack (Delta 3A)



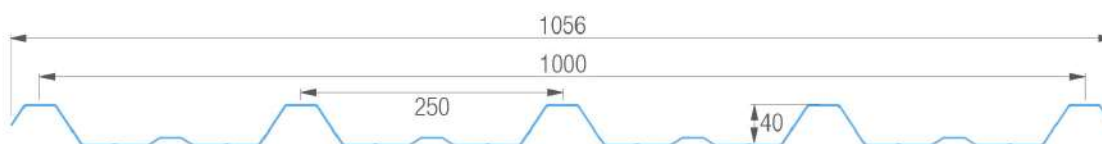
Greca 250 / 41 compatible with Isolpack (Delta 5A)



Greca 250 / 41.9 compatible with Italpannelli (Penta)



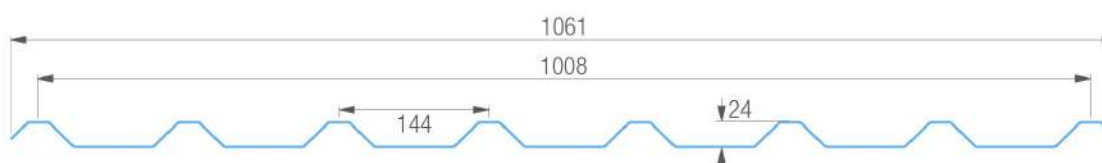
Greca 250/40 compatible with Isolpack (RW1000)



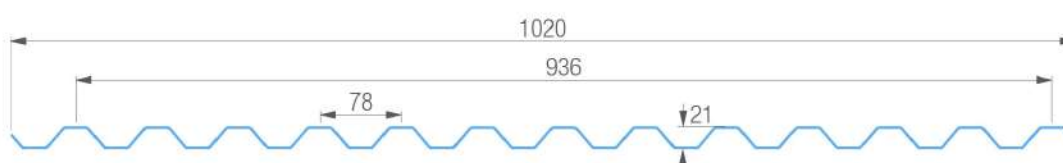
Greca 250/40 compatible with ICON - A.H.M



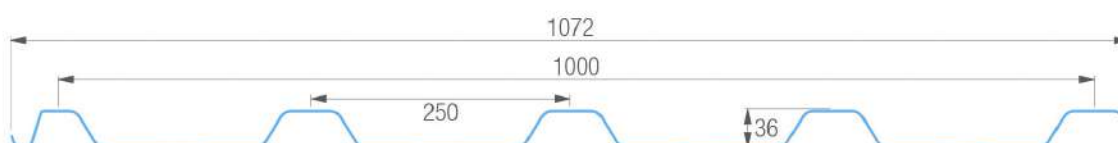
Greca 144/24.5 compatible with Superpantera



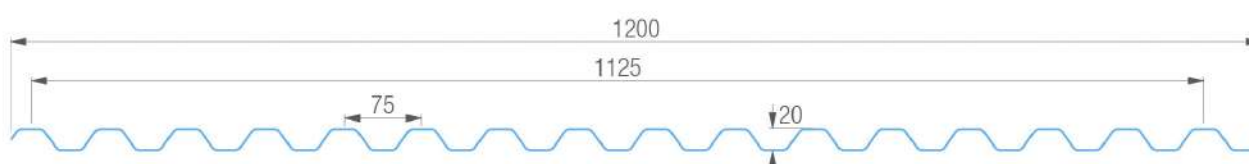
Greca 78/21 compatible with Alubel 21



Greca 250/36 compatible with SAB KD36



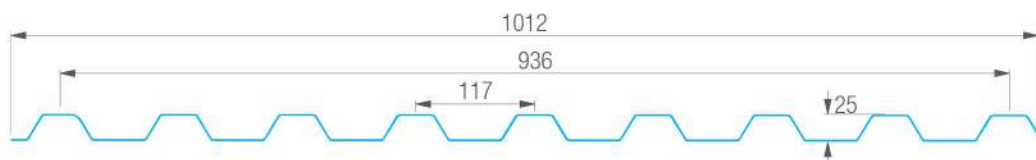
Greca 75/20 compatible with Grekor (20/52)



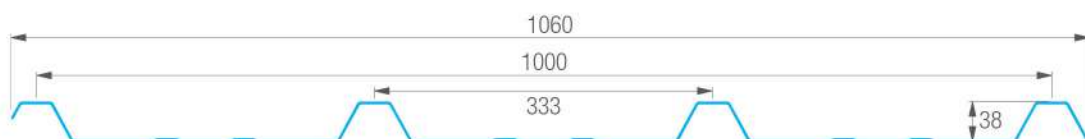
Greca 112/29 compatible with Copernit (Profilo 29)



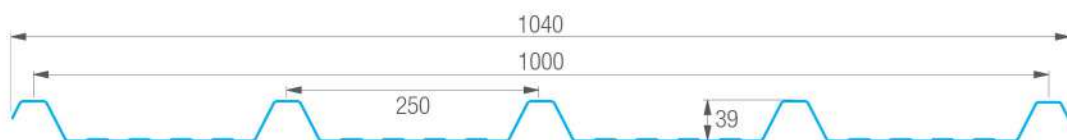
Greca 117.5/25 compatible with Isolpack (SL 940)



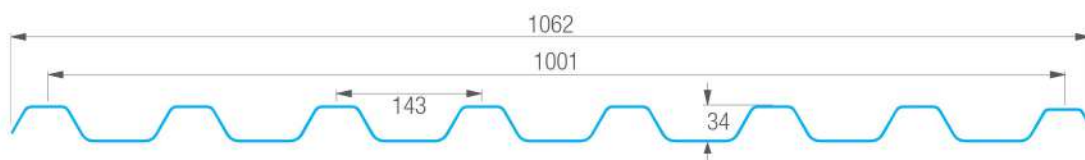
Greca 333.5/38 compatible with Scope 333.5x38



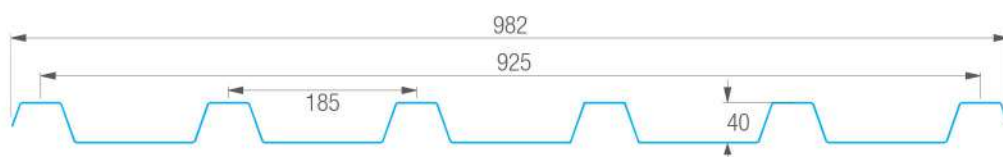
Greca 250/40 compatible with Alubel (Dach)



Greca 143/34 compatible with Tecno Imac (Greca 143)



Greca 183/40



Storage and handling



KEEP SHEETS OUT OF THE RAIN

Sheets must be stored out of the rain to stop condensation forming inside the cells.



KEEP SHEETS OUT OF THE SUN

In the event goods need to be stored while still in their packaging, do not leave the pallet in direct sunlight as this could generate high temperatures inside the packaging and make it difficult to remove the protective film on the sheets later.



SHEET HANDLING

Sheets must be handled with the utmost care to avoid damaging them with impacts or scratches, which would compromise the material's performance.



SHEET STORAGE

You can stack sheets up to three packs or pallets high. To stop the product coming into direct contact with objects liable to cause damage, you should place spacers or planks between the packs or pallets and any such objects.



USING LIFT TRUCKS

For safer and easier handling, you should use lift trucks with forks that can be spaced at least 2 m apart and are at least as long as the pack or pallet is wide. Exercise the utmost caution, handling the load carefully and avoiding sudden movements so as not to cause the material to rock or bump up and down excessively.



HANDLING BY HAND

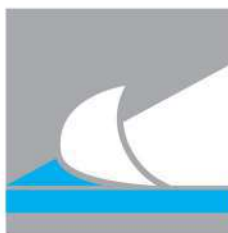
If individual sheets are to be handled by hand, you will need at least two people to carry the sheet on its side. When picking the sheet up off the pack or pallet, you must lift it off cleanly so that it does not scrape against the one underneath and turn it to lie on its side next to the pack.

Installation instructions



ALLOW FOR THE POLYCARBONATE'S THERMAL EXPANSION

Sheets must be fixed so that they are retained by at least one whole cell length on each side; an allowance for the material's thermal expansion should be added to this measurement.



REMOVING PROTECTIVE FILM AFTER INSTALLATION

Sheets come with a protective film on both sides. There is a printed film on one side of the sheet to show you that this is the side to face out. Remove the film as soon as the sheets have been installed.



SHEET SEALING

Where sealing is necessary, only use silicone, sealants, gaskets and paints that are compatible with polycarbonate.



SHEET TAPING

Seal the ends of the sheets by applying adhesive aluminium tape to seal the cells and stop dirt getting inside the chambers.



SHEET CUTTING

Sheets can be cut using common cutting instruments, such as vertical, horizontal or circular cutters, or reciprocating saws, provided they are fine toothed.



SHEET DRILLING

Sheets can be drilled, provided suitable bits are used. Nonetheless, we do not recommend piercing the sheet with through fixings unless they are suitable slotted to allow for thermal expansion.

Maintenance



SHEET CLEANING

To care for sheeting, we recommend cleaning at least twice a year with water and non-alkaline detergents. Do not use abrasive equipment or solvents, which could damage the surface of the sheeting.



DO NOT WALK ON TOP OF SHEETS

Do not walk directly on top of sheets during installation. We recommend placing a suitable supporting element on top to distribute weight evenly.

All information, advice or suggestions provided by Koscon Industrial S.A., such as sheet performance, application projects or use of our materials, are given in good faith, to the best of our knowledge. Nonetheless, given that Koscon Industrial S.A. has no control over the use to which third parties put our material, we disclaim responsibility towards any purchasers, users or third parties for any service rendered or for the properties or performance of the material. Individual users of the material are required to perform their own trials to determine whether the material is suitable for the specific use in question. Koscon Industrial S.A. reserves the right to change any kind of data featured herein at any time without prior notice.

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SHEETS AND SYSTEMS IN POLYCARBONATE